

IN THE CLAIMS:

Please amend claims the claims as follows:

4B1
1. (Twice Amended) A purified polynucleotide that comprises a polynucleotide [that specifically binds to] ~~which has at least 50% identity to~~ a polynucleotide sequence selected from the group consisting of SEQUENCE ID NO 1, SEQUENCE ID NO 2, and SEQUENCE ID NO 3, and full complements thereof.

4B2
5. (Twice Amended) A recombinant expression [system] vector for use in a desired host comprising a nucleic acid sequence that encodes an open reading frame of at least 5 amino acids, said nucleic acid sequence ~~[derived from]~~ having at least 50% identity with a polynucleotide selected from the group consisting of SEQUENCE ID NO 1, SEQUENCE ID NO 2, SEQUENCE ID NO 3, and nucleotides 51-284 of SEQUENCE ID NO 7, wherein said open reading frame is operably linked to a control sequence compatible with the desired host wherein said control sequence is selected from the group consisting of promoters, terminators, enhancers, ribosomal binding sites and leader sequences.

4B3
12. (Twice Amended) A composition of matter comprising a purified polynucleotide which has 50% identity with a polynucleotide [that specifically binds to a polynucleotide] selected from the group consisting of SEQUENCE ID NO 1, SEQUENCE ID NO 2, SEQUENCE ID NO 3 and full complements thereof.

4B4
14. (Amended) A purified polynucleotide [gene], or a fragment thereof, which codes for a [LS147] protein which comprises an amino acid sequence having at least 50% to SEQUENCE ID NO. 15.

Please add new claim 34.

4B5
34. (new) A purified polynucleotide comprising a polynucleotide which has at least 50% identity to nucleotides 5-419 fo SEQ ID NO. 7.